

# BULDING 6 VESDA

## 1 Cyclotron Road, Berkeley, California 94720

	DRAWING INDEX					
SHEET NO.	SHEET CONTENTS	DRAWING NO				
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FA-02	(E) SYSTEM 3 FIRE ALARM PANEL & DETAILS  (N) VESDA LASERPLUS DETECTOR DETAILS					
FA-03						
FA-04						
FA-05						
FA-06	VESDA PIPING LAYOUT	_				

#### **CODE SUMMARY**

#### APPLICABLE CODES:

2007 California Building Standards Administrative Code Part 1, Title 24, California Code of Regulations (CCR)

2007 California Building Code
Part 2, Title 24, CCR (2006 IBC and 2007 California Amendments)

2007 California Electrical Code
Part 3, Title 24, CCR (2005 NEC and 2007 California Amendments)

2007 California Mechanical Code

Part 4, Title 24, CCR (2006 UMC and 2007 California Amendments)
2007 California Fire Code

Part 9, Title 24, CCR (2006 IFC and 2007 California Amendments)

2007 NFPA 72, National Fire Alarm Code And All Amendments and Additions to the Above

#### VESDA SYSTEM TUBING INSTALLATION NOTES

- TO CONNECT THE AIR SAMPLING SYSTEM NETWORK TO A SURFACE MOUNTED DETECTOR UNIT:
   A. DE-BURR AND SQUARE OFF THE ENDS OF THE SAMPLING PIPES.
   B. MAKE SURE THAT THE PIPES ARE FREE OF LOOSE DEBRIS.
- C. PULL DOWN THE PIPES AND INSERT THEM INTO THE INLET MANIFOLD.
  NOTE: <u>DO NOT GLUE</u> PIPING TO DETECTOR CONNECTIONS SO THAT DISCONNECTION CAN OCCUR DURING FUTURE MAINTENANCE.
  2. ALL CPVC TUBING/FITTINGS ARE TO BE GLUED TOGETHER USING "RATED" GLUE FOR
- PLASTICS. REMOVE ANY EXESS GLUE TO AVOID CLOGGING OF ANY PIPE SEGMENT
  THE TUBING WHICH DO NOT GLUE AND/OR SAMPLING HOLE. EXCEPTION: CONNECTS
  DIRECTLY TO THE DETECTOR UNIT (SEE NOTE 1 ABOVE).

  3. EACH SAMPLING HOLE MUST BE DRILLED TO THE SIZE INDICATED ON THE "VESDA"
- SAMPLING POINT CHART" ASSOCIATED WITH EACH SYSTEM'S TUBING LAYOUT (SEE DRAWING).

  4. EACH SAMPLING HOLE IS TO BE DRILLED INTO THE TUBING AT THE SIDE (I.E., BOTTOM, ETC.) INDICATED ON THE "TUBING LAYOUTS".
- 5. "DO NOT PAINT" WARNING STICKERS SHALL BE PLACED AROUND THE VESDA

CAPILLARY AND SAMPLING PORTS.

#### SCOPE OF WORK

- 1. PROVIDE NEW VESDA "LaserPLUS" DETECTORS AS A REPLACEMENT FOR EXISTING
- ANALASER HSSD.

  2. ONE FOR ONE DEVICE SWAP OUT USING EXISTING WIRES, CONDUITS AND SAMPLING

	ı				ALARM EQUIPMENT L	101	DATE	CALIFORNIA
TE- RY	ITEM NO.	SYMBOL	QTY	MODEL NUMBER	DESCRIPTION	MANUFACTURER	DATA SHEET NUMBER	CALIFORNIA STATE FIRE MARSHAL LISTING NUMBER
	1	0000	7	VLP-400	VESDA LASER PLUS "DETECTOR ONLY"	XTRALIS		7259-1728: 010
	2		3	VPS-300US-120	VESDA POWER SUPPLY UNIT MULTI ZONE (120VAC)	XTRALIS		7315–1728: 010
	3		18	VBT-012	12 VDC BATTERY (12 AMP-HOUR)	XTRALIS		
	4		7	VSP-002	STD DISPLAY MODULE	XTRALIS		7300–1728–01
5	5		1	VSP-001	PROGRAMMER MODULE	XTRALIS		7300-1728-01
DL 110	6		3	VSR-0000	REMOTE 19" SUB RACK WITH 4EM BLANK PLATES	XTRALIS		7300–1728–01
- -	7		7	VSP-008	REMOTE TERM CD (RTC7)	XTRALIS		
	8		1	VRE-100	REMOTE 19" SUB BACKBOX	XTRALIS		7300–1728–0 <sup>-</sup>
	9		1	VPS-007	O RING REMOTE TERMINATION CARD	XTRALIS		
	10		NOT	E: EQUIPMENTS	WERE PURCHASED UNDER A SEPARATE PURCHASE (	ORDER.		
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REVISION

No. Revision

REVISED PER LBNL FM REVIEW COMMENTS 6-4-12

AS-BUILT

JPM 9/19/12 KW



INSTALLATION CONTRACTORS NAME & ADDRESS:

M & M ELECTRIC

1009 Gettysburg Way,
Modesto, CA 95355

Tel (209) 204-2798

PRODUCT MANUFACTUR

### Siemens Industry, Industry, Industry

25821 Industrial Boulevard, Suite 300 Hayward, California 94545-2991 Tel (510) 783-6000 Fax (510) 293-2100 California State C10 License No. 758796 U.L. Certificate ID No. 324787-001

OB NAME & LOCATION (STREET ADDRESS)

UNIVERSITY OF CALIFORNIA
LAWRENCE BERKELEY NATIONAL LABORATORY
BERKELEY LAB FACILITIES DIVISION

BUILDING 6 VESDA

One Cyclotron Road, Berkeley, California 94720

#### COVER SHEET OF THE PROPERTY OF

INSTALLATION TYPE

NEW INSTALLATION

□ DESIGN/BUILD
 □ PER CONTRACT DOCUMENT
 □ EXISTING BASE JOB # \_\_\_\_N/A
 □ OTHERS \_\_\_\_

SYSTEM SALES REP.:

Kevin Waxman

PROJECT VANAGER:

Karen Davis

DRAWN BY:

JPM

CAD FILENAME:

FA-01

SCALE:

Not Applicable

May 29, 2010 March 19, 2014

DRAWING NO. SHEET JOS NUMBER

5B06E346 FA-01 440P-109114